## U.S. Patent Application No. 10/775,530

## In the Claims:

(Withdrawn) A process for removing contaminants in a fluid stream, comprising flowing the fluid stream in a first flow path over a catalyst to yield a first exit stream;

directing at least a portion of the first exit stream to an adsorbent bed positioned downstream from said catalyst, said directing continuing until a predetermined operating parameter is achieved; and

after sald operating parameter is achieved, diverting at least a portion of said first exit stream to bypass said adsorbent bed for flow over said catalyst in a second flow path.

- (Withdrawn) The process according to claim 1, wherein said diverting is achieved by a flow diversion member positioned between said catalyst and said adsorbent bed.
- 3. (Withdrawn) The process according to claim 2, wherein said diverting occurs when a preselected temperature in the adsorbent bed, in the catalyst, or both is reached.
- 4. (Withdrawn) The process according to claim 1, wherein said directing at least a portion of the first exhaust stream to an adsorbent bed yields a second exit stream, and said process further includes controlling the destination of said second exit stream.
- 5. (Withdrawn) The process according to claim 4, wherein said controlling comprises controlling the second exit stream so that all or a portion of the second exit stream is diverted to avoid flow over the catalyst in the second flow path.
- (Withdrawn) The process according to claim 1, wherein said catalyst has a tube and shell structure, and said first flow path is through said tubes.
- 7. Withdrawn) The process according to claim 1, wherein said directing continues until catalyst light-off temperature is reached and until descrption of a substantial portion of adsorbed species on the adsorbent bed is achieved.
- (Withdrawn) The process according to claim 1, wherein said directing continues until 8. catalyst light-off temperature is reached, whereupon a first portion of the first exit stream is diverted to bypass the adsorbent bed and a second portion of the first exit stream continues to flow over said adsorbent bed.

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- 9. (Withdrawn) The process according to claim 8, wherein the first portion of the first exit stream is a major portion and the second portion of the first exit stream is a minor portion.
- 10. (Withdrawn) The process according to claim 1, wherein said directing continues for a predetermined period of time, whereupon a first portion of the first exit stream is diverted to bypass the adsorbent bed and a second portion of the first exit stream continues to flow over said adsorbent bed.
- (Withdrawn) The process according to claim 1, wherein said directing continues until a 11. predetermined period of time has lapsed or until a predetermined temperature is reached. whereupon a first portion of the first exit stream is diverted to bypass the adsorbent bed and a second portion of the first exit stream continues to flow over said adsorbent bed.
- 12. (Withdrawn) The process according to claim 11, wherein said predetermined temperature is a selected catalyst temperature or a selected adsorbent bed temperature.
- 13. (Withdrawn) The process according to claim 12, wherein said selected catalyst temperature is measured at the point where the first exit stream exits the catalyst.
- (Withdrawn) The process according to claim 1, wherein the first flow path is 14. crosscurrent to said second flow path.
- (Withdrawn) The process according to claim 1, wherein first flow path is countercurrent 15. to said second flow path.
- (Withdrawn) The process according to claim 1, wherein first flow path is co-current to 16. said second flow path.
- 17. (Withdrawn) The process according to claim 1, wherein said directing the first exit stream to an adsorbent bed forms a second exit stream that flows over said catalyst in said second flow path.
- 18. (Withdrawn) The process according to claim 17, wherein first flow path is crosscurrent to said second flow path.

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- 19. (Withdrawn) The process according to claim 17, wherein first flow path is countercurrent to said second flow path.
- (Withdrawn) The process according to claim 17, wherein first flow path is co-current to 20. said second flow path.
- 21. (Original) A treatment system for a fluid stream, comprising a catalyst having a first flow path and a second flow path, said catalyst positioned to receive a fluid stream in said first flow path; an adsorbent bed positioned downstream from said catalyst and in fluid communication with said catalyst:

a first flow diversion member positioned to direct at least a portion of the fluid stream to or away from said adsorbent bed as the fluid stream exits said catalyst;

wherein the fluid stream is passed over said adsorbent bed until a predetermined parameter is reached, whereupon said flow diversion member is positioned to divert at least a portion of the stream away from sald adsorbent bed and into the second flow path of said catalyst.

- 22. (Original) The system of claim 21, further comprising a second flow diversion member positioned downstream of said adsorbent bed for directing all or a portion of stream after passage over said adsorbent bed to or away from the second flow path of said catalyst.
- 23. (Original) The system of claim 21, wherein the predetermined parameter is selected from a temperature or a time period.
- 24. (Original) The system of claim 21, wherein the predetermined parameter is a temperature in the catalyst or in the adsorbent bed.
- 25. (Original) The system of claim 21, wherein the predetermined parameter is alternatively a time period or a temperature.
- 26. (Original) The system of claim 21, wherein said catalyst has a tube and shell structural configuration, with Inner and outer tube surfaces operative for catalytic activity.
- 27. (Original) The system of claim 21, further comprising a temperature sensor positioned for monitoring the temperature of the exit stream.

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- 28. (Original) The system of claim 27, wherein said valve position is changed in response to a preselected bed temperature sensed by said temperature sensor.
- 29. (Original) The system of claim 21, wherein said valve position is changed upon lapse of a preselected time period.
- 30. (Original) The system of claim 21, wherein said valve position is changed in response to a preselected bed temperature sensed by said temperature sensor.
- 31. (Original) The system of claim 21, wherein said first flow path is countercurrent to said second flow path.
- 32. (Original) The system of claim 21, wherein said first flow path is crosscurrent to said second flow path.
- 33. (Original) The system of claim 21, wherein said first flow path is co-current to said second flow path.
- 34. (Original) The system of claim 21, wherein said exit stream is a gas stream.